### DEFENSE LOGISTICS AGENCY

# DIMINISHING MANUFACTURING SOURCES INTEGRATED PROGRAM TEAM

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# WHAT IS DIMINISHING MANUFACTURING SOURCES?

- ◆ DoD Definition: The loss or impending loss of the **last known** manufacturer or supplier of raw material, production parts or repair parts
- ◆ Industry **Obsolescence** Definition: The loss or impending loss of the **original** manufacturer or supplier of raw material, production parts or repair parts

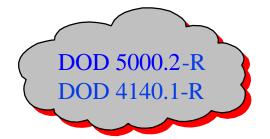
### DLA - WHAT IS OUR ROLE?

- ◆ Weapon Systems (W/S) Supported 1,419
- Items Managed 3.8M
  - **√** (2.2M W/S Coded)
- Annual Procurements \$3.0B
- Annual Sales 11.1B



### DLA DMSMS PROGRAM

- Decentralized Management
  - ✓ Multifunctional support
  - ✓ Each DSC bases program on their environment
- Use IPTs for major cases
- ◆ Bottom line meet customer needs as cost effectively as possible





# DLA DMSMS WORKING GROUP PRIMARY POINTS OF CONTACT

<b>ORGANIZATION</b>	NAME	PHONE
DLA-MMPON	Mr. Phil Clark	(703)767-1424
DLA-MMLSP	Ms. Delbert Roberts	(703)767-1610
DCMCDE-N	Mr. Nate Green	(215)737-3454
DSCC-PAP	Mr. Dave McCrary	614)692-1082
DSCC-CD*	Mr. Jim Nesseler	614)692-7569
DISC-PMI	Mr. Bill O'Neill	(215)697-9373
DPSC-PM	Ms. Nancy Chester	(215)737-4218
DSCR-JJB	Mr. James Lee	(804)279-3152
DLSC-RPD	Mr. Ed Floyd	(616)961-4326

<sup>\*</sup> Electronics Commodities

# **SOLUTION ALTERNATIVES**

- Alternate Source (Including After Market)
- Alternate Item (Including Commercial)
- Re-engineering
- Prime Vendor
- Bridge Buy
- Lifetime Buy
- No Action

\*Proactive

\*Life-Cycle Costs

\*Do what makes sense

\*Teamwork

\*Different Solutions for Different Users \*Joint Actions Provide Leverage With Suppliers

### RECENT EXAMPLES

- ◆ Motorola (584 weapon systems 17,000 NSNs)
- ◆ Texas Instruments (HARM Missile) \$16.5M
- Brackets for TF-30 Engine
- Bolts for TF-33 Engine
- ◆ Brake valves for C-131
- Cabling, bracket, struts, for A-10

## **COMMUNICATIONS**

- Too many independent information systems, some automated, some in file drawers
- - ✓ Some do not get notified, some do
  - ✓ Different groups "solving" the same problem
  - ✓ More groups (IPTs/PATs) being formed
- We can't afford to do things this way in today's environment

## **DMSMS DATA BASE**

- Single point for DMSMS notifications
  - ✓ Eliminate duplication of effort
  - ✓ Save time and \$\$
- Allow Government/Industry to share solution information`
- Improved program oversight
- Improved readiness



We need <u>your</u>help! This may be a great tool but it will be useless without user participation!

## THE FUTURE - POSSIBILITIES

- Prediction Services/Tools
- Type Designator Data Bases
- Inventory information
- ◆ Take Advantage of The Internet
- ◆ IPT Results





# DOD IPT DMS

- Identify IC obsolescence trends
- Determine if DMS is an industry wide or strictly DoD problem and why DoD has difficulty obtaining ICs
  - Related to a particular class of ICs?
  - Caused by technology advancement?
  - Suppliers going out of business?
- Evaluate adequacy of DoD IC DMS management
- Recommend a course of action:
  - Address the IC DMS problem
  - Establish management mechanisms to address future supply problems

## IPT MEMBERSHIP

#### **Co-Chairmen:**

Mr. Lucien Chaker and Mr. Martin Meth ODUSD(L) ODUSD(IA&I)

### Army

Mr. Kenneth H. Brockel

Mr. Bob Gibbs

### Navy

**CAPT Lou Morris** 

#### **Air Force**

Dr. John Hines

Mr. Ron Shimazu

#### **DARPA**

Mr. Randy Harr

#### **DLA**

Mr. Phil Clark

Mr. Dave Taylor

#### **OSD**

Mr. .Peter Holbrok

Dr. Susan Turnbach

#### **Joint Staff**

CDR. Laurie Mckee

## DMS IS NOT A NEW PROBLEM

- Services established electronics DMS support centers
- DoD formulated DMS poicy in place
- OSD/DLA sponsored technical solution efforts
  - ✓ Microcircuit emulation (GEM)
  - ✓ RAMP
- Government/Industry Data Exchange Program (GIDEP)
   DMS notification system begun

DOD Has Been Addressing Since Mid 1980s.

## WHO'S STUDYING THE PROBLEM?

- Sustainment Readiness Working Group
  - Joint Directors of Labs Manufacturing Technology Panel
- Joint EIA Manufacturing/Materials Procurement
- EIA/NCAT Division White Paper
- Parts Acquisition Reform Team Parts Mgmt Best Practices
- OSD Diminishing Manufacturing Sources and Material Shortages (DMSMS) Working Group Subgroup
- Joint Aeronautical Commanders Group Affordability Decision Support Subgroup

# DOD MANAGEMENT IPT CONSENSUS

- Many individual Service activities address DMS; problems & solutions not shared
  - Intelligent, coordinated management would reduce impact
- Wartime surge and contingencies not addressed
- No program element (PE) for DMS solutions
- Acquisition initiatives may exacerbate DMS

**No Single Solution For All DMS Situations** 

### DRAFT

# AMEND SUPPLY POLICY (FIELDED SYSTEMS)

**Problem Statement:** When notice is given by the item manager that an IC will no longer be produced, not all users, e.g., program managers, respond with their outyear demand projections

### **Recommendations:**

- Direct Services to improve procedures for providing demand projections once DMS notifications are received
  - Action: USD(A&T)/SAE's
- Direct ICP's to limit automatic issue of DMS parts to those who provided outyear projections
  - Item manager will evaluate the impact of issuing the part to nonresponders
  - Increase charges to expand parts availability to non responders

**Action:** DUSD (Logistics)

# ESTABLISH SUPPLY SOURCE DATA WAREHOUSE (NEW AND FIELDED SYSTEMS)

### Problem statement:

- ◆ Information on IC weapon systems applications and available IC substitution candidates is difficult to find.
- Available engineering support capability not consistently being used.

### **DRAFT**

# GOVERNMENT DMS MANAGEMENT DRAFT CAPABILITY

Organization	W/S Config	System Analysis	Predict/ Analysis		DMS Alerts
NSWC - DTC	X	X	X	X	X
MICOM	X	X	X	X	
WPAFB (ECOM)	X	X	X	X	
NUSWC	X	X	X		
DEMA		X	X		
NAWC - DTC	X	X	X		
DSCC	X		X	X	X
GIDEP				X	X
DLSC	X			X	

Full Service DMS Engineering Centers

# GOVERNMENT DMS MANAGEMENT DRAFT CAPABILITY

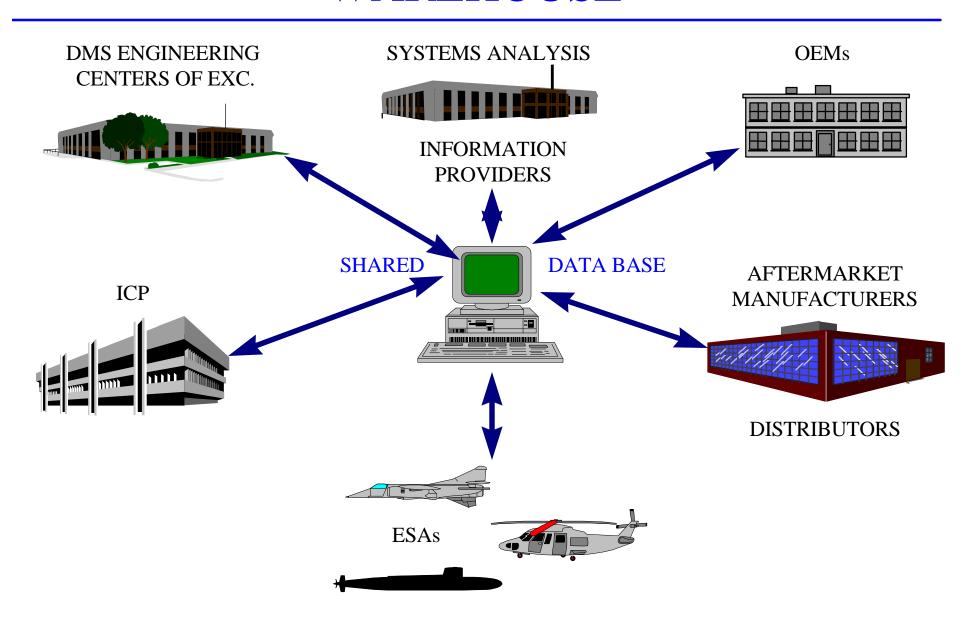
Organization	IC Subt. Selection	IC Design	IC Mfg	IC Testing	PWB Dsg/Mfg
NSWC - DTC	X	X		X	X
MICOM	X				
WPAFB	X				
NUSWC	X				
DEMA		X	$X^1$	X	X
NAWC - DTC	X	X			X
DSCC	X			X	
Sarnoff - GEM		X	X	X	

<sup>1</sup> Prototype Manufacturing

# COMMERCIAL DMS MANAGEMENT DRAFT CAPABILITY

Organization	DMS Alerts	System Analysis		I/D IC Sources	IC Mfg
TACTech	X	X	X	X	
Uwohali	X	X	X	X	
ASPECT				X	
IHS				X	
IC OEMs				X	X
Aftermarket				X	X

# SUPPLY PARTS DATA WAREHOUSE



# ESTABLISH SUPPLY SOURCE DATA DRAFT WAREHOUSE

### Recommendations:

 Determine the appropriate organization to maintain an IC data warehouse and to establish the link with DMS engineering centers

**Action:** DUSD(L)

Advertise IC DMS engineering center capabilities.

**Action:** DUSD(L)

• Designate an Electronic Commerce Resource Center (ECRC) to work with the selected organization on networking and data base capability for querying weapon systems configurations

**Action:** DLA

### DRAFT

# IMPOSE DATA REQUIREMENTS (NEW SYSTEMS)

Problem statement: Many systems do not posses nor have access to data required to substitute or to reengineer an IC when production of that part is terminated

#### **Recommendations:**

- ◆ To facilitate part substitution actions, acquisition contracts should contain a clause that allows data access under defined criteria. Criteria includes: vendor notification that IC manufacture will be discontinued; OEM will no longer be responsible for logistics, etc.
- Data should be in a functional level form, technology independent, and using standard product description (suggest IEEE VHDL)
- Require reviews by SAEs during acquisition process

**Actions:** USD(A&T)

# DRAFT INSTALL EXECUTIVE AGENT (NEW AND FIELDED SYSTEMS)

Problem statement: There is no central activity to coordinate DMS activities. Some economies of scale and elimination of possible duplicate activities would result with better coordination.

### Recommendations:

- Designate USD(A&T) office as DMS Executive Agent.
- Empower Executive Agent to:
  - Monitor technology trends; proactively remedy DMS problems
  - Coordinate DoD IC DMS activities and facilitate communications
  - Recommend changes to acquisition and material management policies and procedures
- Provide funding to support Executive Agent activities.
- **Actions:** USD(A&T)

# **SUMMARY**

- ◆ The DMS Program is working ... could be better
- Improved teamwork and communication are keys to success
- ◆ DMS microcircuit IPT results due soon